

Claims

1. Medical, in particular dental-medical, handpiece (1), which has in its rearward end region a coupling connection for coupling on to a flexible supply hose (13), wherein at least one delivery line (9, 10) for an abrasive flow medium extends from the coupling connection to an outlet (11) which is arranged in the forward end region of the handpiece (1) and opens into a hood-form free space (27) of a splash guard (25) which is releasably connected with the handpiece (1) by means of a plug-in fitting (35) having two plug-in fitting parts in the form of a plug-in recess (35a) and a plug-in pin (35b) that can be inserted therein, and a latching device (36) integrated in the plug-in fitting (35), wherein the plug-in fitting (35) has a spring tongue (38a), elastically outwardly bendable transversely to the plug-in axis (11b), with a latching nose (36a) arranged thereon on the one plug-in fitting part and an undercut (36b) on the other plug-in fitting part.

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2. Handpiece according to claim 1, characterized in that, the spring tongue (238a) is arranged on the plug-in fitting (35) and the undercut (36b) is arranged on the plug-in pin (35b).

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3. Handpiece according to claim 1 or 2, characterized in that, the plug-in fitting (35) has a circumferential wall (26a) surrounding the plug-in recess (35a), which wall is slotted by at least one longitudinal slot (39).

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4. Handpiece according to any preceding claim,
characterized in that,
the plug-in pin (25b) - seen in axial section - has a
thickening with a first converging part (41a) towards its
5 free end and a second converging part (41b) away from its
free end, of which the first converging part (41a), upon the
plugging together of the plug-in fitting parts, forms a
guide surface (37) which urges the latching nose (36a) into
a release position, and the second converging part (41b)
10 forms the undercut (36b).
5. Handpiece according to any preceding claim,
characterized in that,
the plug-in pin is arranged in the end region of a cannula
15 (16), which is preferably releasably connected with a grip
part (4) of the handpiece (1), wherein the plug-in pin (35d)
is formed in particular by means of a sleeve (35c) inserted
on or screwed on to the cannula (16).
- 20 6. Handpiece according to claim 4,
characterized in that,
the thickening is formed by means of a ball section shaped
rounding, preferably by means of a barrel shaped rounding.
- 25 7. Splash guard (25) for a medical, in particular dental-
medical, handpiece (1), which has in its rearward end region
a coupling connection for coupling on to a flexible supply
hose (13), wherein at least one delivery line (9, 10) for an
abrasive flow medium extends from the coupling connection to
30 an outlet (11) which is arranged in the forward end region
of the handpiece (1),

wherein the splash guard (25) has a guard body (26) having a hood-form free space (27) into which the delivery line (9, 10) opens, and wherein the splash guard (25) has a plug-in recess (35a) having a latching nose (36a) arranged in its edge region, and is therewith releasably latched with the handpiece (1),

characterized in that, the plug-in recess (35a) has associated therewith a spring tongue (38a), elastically bendable outwardly transversely to the plug-in axis (11b), having a latch nose (36a) arranged thereon, which latch nose is formed by means of at least one longitudinal slot (39) in a circumferential wall (26a) of the plug-in recess (25a).

8. Handpiece according to any of preceding claims 3 to 6 or splash guard according to claim 7, characterized in that, there are provided a plurality of longitudinal slots (39) distributed around the circumference, or two mutually opposite longitudinal slots (39).

9. Handpiece or splash guard according to any preceding claim, characterized in that, the at least one latch nose (36a) and/or the spring tongue (38a) bear or bears on the plug-in pin (35b) with a bias.

10. Handpiece according to any of claims 1 to 6 or splash guard according to any of claims 7 to 9, characterized in that, the at least one spring tongue (38a) - seen in axial section - is convergently shaped at its inner side, preferably

shaped in a ball section form or barrel form, whereby in particular the shape of the inner side is adapted to the shape of a plug-in pin (35b) on the handpiece (1).

- 5 11. Splash guard (25) for a medical, in particular dental-medical, handpiece (1), which has in its rearward end region a coupling connection for coupling on to a flexible supply hose (13), wherein at least one delivery line (9, 10) for an abrasive flow medium extends from the coupling connection to
 - 10 an outlet (11) which is arranged in the forward end region of the handpiece (1),
 - wherein the splash guard (25) has a guard body (26) having a hood-form free space (27) into which the delivery line (9, 10) opens, and wherein the splash guard (25) has a plug-in
 - 15 recess (35a) having a latching nose (36a) arranged in its edge region, and is therewith releasably latched with the handpiece (1),
 - characterized in that,
 - the connection (30) is a rotary connection (30b) in which
 - 20 the splash guard body (26) is rotatable around an axially extending axis of rotation (11b).
12. Splash guard according to any preceding claim, characterized in that,
 - 25 at the edge (29) of the guard body (26) there are arranged one or more projecting edge sections (29a) which next to them or between them form recesses (31), wherein preferably in the case of a rotatable guard body (26) or in the case of a non-rotatable guard body (26) there is provided an edge
 - 30 section (31), arranged to the side with reference to the longitudinal axis of the cannula (16), which edge section

extends over approximately the half over the circumference of the circumferential wall (26a) of the guard body (26).

13. Splash guard (25) for a medical, in particular dental-
5 medical, handpiece (1), which has in its rearward end region
a coupling connection for coupling on to a flexible supply
hose (13), wherein at least one delivery line (9, 10) for an
abrasive flow medium extends from the coupling connection to
an outlet (11) which is arranged in the forward end region
10 of the handpiece (1),
wherein the splash guard (25) has a guard body (26) having a
hood-form free space (27) into which the delivery line (9,
10) opens, and wherein the splash guard (25) is releasably
connectable with the handpiece (1),
15 characterized in that,
a plurality of different splash guard parts (25) are
provided, which can be selectively connected with the
handpiece (1) or the cannula (16), preferably by means of a
quick connection (30b), or in that a plurality of different
20 guard bodies (26) are provided which are connectable by
means of a quick connection (30b) with a carrier base (35f)
of the splash guard (25).

14. Splash guard according to any preceding claim,
25 characterized in that,
a plurality of splash guard parts (25) or guard bodies (26)
having different heights of their free spaces (27) are
provided.

30 15. Splash guard (25) for a medical, in particular dental-
medical, handpiece (1), which has in its rearward end region
a coupling connection for coupling on to a flexible supply

- hose (13), wherein at least one delivery line (9, 10) for an abrasive flow medium extends from the coupling connection to an outlet (11) which is arranged in the forward end region of the handpiece (1),
- 5 wherein the splash guard (25) has a guard body (26) having a hood-form free space (27) into which the delivery line (9, 10) opens, and wherein the splash guard (25) is releasably connectable with the handpiece (1),
- characterized in that,
- 10 the splash guard (25) is screwed on to the free end region of the handpiece (1) or on to a cannula (16) preferably releasably connected with a grip part (4) of the handpiece (1).
- 15 16. Handpiece or splash guard (25) according to any preceding claim,
- characterized in that,
- the hood-form free space (27) diverges towards its opening (28).
- 20 17. Handpiece or splash guard according to any preceding claim,
- characterized in that,
- a circumferential wall (26) surrounding the free space (27)
- 25 has in its edge region one or more recesses (31) arranged distributed around its circumference.
18. Handpiece or splash guard according to any preceding claim,
- 30 characterized in that,
- the circumferential wall surrounding the free space (27) is formed by means of brush-like pins (43) which in the

circumferential direction lie closely on one another or have a spacing from one another.

19. Handpiece or splash guard according to claim 18,
5 characterized in that,
in their forward region the pins (43) are spliced.
20. Handpiece or splash guard according to claim 18 or 19,
characterized in that,
10 the pins are formed by means of segments.
21. Handpiece or splash guard according to any of claim 18
to 20,
characterized in that,
15 the pins (43) or segments have, at a spacing from their free
end, in each case a cross-sectional weakening which is e.g.
formed by means of a notch, and which is preferably arranged
on the outer side of the pins (43).